

Title (en)
Pressure sensor

Title (de)
Drucksensor

Title (fr)
Capteur de pression

Publication
EP 2423656 B1 20200219 (EN)

Application
EP 11176999 A 20110809

Priority
US 86131810 A 20100823

Abstract (en)
[origin: EP2423656A1] A pressure sensor (10) is disclosed that can help isolate the sensor and/or sensor components from a media to be sensed and/or can help reduce sensor damage caused by harsh operating environments. In one illustrative embodiment, the pressure sensor (10) may include a substrate (12) having a pressure sensing die (18) mounted on a first side of the substrate (12), a first housing member defining a first cavity (28) around the pressure sensing die (18), and a second housing member defining a second cavity (29) on the second side of the substrate (12). A passivating agent (13), such as a gel, can be positioned in both the first cavity (28) and the second cavity (29) to transmit pressure from the media to a pressure sensing element (e.g. diaphragm) while isolating the pressure sensing element and other components from the media. In some cases, the first housing member and/or the second housing member may include an opening for exposing the passivating agent (13) to the media. In some cases, the opening (20) may be defined by one or more tapered and/or chamfered edges (21) to help provide freeze damage protection.

IPC 8 full level
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US9927314B2; WO2017041873A1; WO2023117328A1; WO2014096744A1; WO2017121562A1; US10641674B2; US10994989B2

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